

Dennis C. Odion

Ecologist, National Park Service, Klamath Network
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Research Biologist
Institute for Computational Earth Systems Science
University of California
Santa Barbara, California, 93106
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PROFESSIONAL INTERESTS:

Plant ecology, vegetation patterns, fire, species diversity

EDUCATION

University of California Santa Barbara

1995 Ph.D. Geography. Advisor, Frank W. Davis
1984 M.A. Botany, Advisor, J.R. Haller
1981 B.A. Environmental Biology

AWARDS

2007 National Park Service. Klamath Network Inventory and Monitoring Program, Outstanding Scientific Partner.

EXPERIENCE

1/04- present. Ecologist. Klamath Network, National Park Service,
Department of Environmental Studies, Southern Oregon University.
Development of long-term programs for monitoring of vital signs and
vegetation mapping in six National Parks
(<http://science.nature.nps.gov/im/monitor/>).

1/95-Present. Researcher, Institute for Computational Earth Systems Science.
Research on fire and vegetation patterns, exotic plant diseases, rare plants
and seed germination.

- 1/84-present. Principal**, Odion Consulting. Ecological studies, technical reports, literature reviews. Fire ecology, resource management and restoration, rare plants and habitats distributions and conservation-related issues.
- 8/95-7/2000. Vegetation Ecologist**, Marin Municipal Water District, Corte Madera, Ca. Management of vegetation and fire on the Mt. Tamalpais Watershed. Fire hazard/urban interface and exotic species issues. Fire behavior and rare plant monitoring, GIS.
- 1/1995-6/95. Post-doctoral Research Biologist**. Department of Biological Sciences, University of California, Santa Barbara. Regeneration of California oaks and livestock impacts.
- 1992-1994. Research Assistant**, Department of Geography, University of California, Santa Barbara. Vegetation mapping, Gap Analysis of California.
- 1988-1991. Research Assistant**, Department of Biological Sciences, University of California, Santa Barbara. Vegetation study of a large desert alkaline ecosystem, Owens Valley, California, in relation to soil properties.
- 1989-1991. Thesis Advisor**, Environmental Studies Department, University of California, Santa Barbara. Supervised 2 Senior Theses.
- 1987-1990. Research Assistant**, Department of Geography, University of California, Santa Barbara. Establishment of vegetation patterns following fire in chaparral.
- 9/87- 6/89. Teaching Assistant**, Department of Geography, University of California, Santa Barbara. *California Geography, Quantitative Vegetation Analysis, Biogeography*.
- 6/84-9/87. Editorial and Education Assistant**, Santa Barbara Botanic Garden. Wrote and edited publications and reports. Field trip leader and course instructor.
- 1/84-6/85. Research Assistant**, Department of Biology, University of California, Santa Barbara. Effects of ryegrass seeding on chaparral post-fire regeneration.
- 9/83-6/84. Teaching Assistant**, Department of Biology, University of California, Santa Barbara. *Vegetation and Flora of California, Community Ecology, Advanced Plant Taxonomy and Systematics*.
- 6/83-9/84. Assistant Curator**, Department of Biology, University of California, Santa Barbara. Teaching and research plant collections, lab set up.
- 8/81-9/82. Orchid grower/tour guide**. Santa Barbara Orchid Estate.
- 1/81-7/81. Lab technician**. Department of Biology, University of California, Santa Barbara. Collected plants and set up labs for *Plants of California*.
- 9/78-12/80. Lab and Field assistant**. Marine Science Institute, University of California. Intertidal benthic studies.

9/77-9/78. Volunteer Editor. Condor Call, Newsletter of the Sierra Club.

PUBLICATIONS

Hanson, Chad T., **Odion, Dennis C.**, DellaSala Dominick.A. Baker, William L.
2010. More-comprehensive recovery actions for Northern Spotted Owls in dry forests: Reply to Spies et al. *Conservation Biology*, in press.

Odion, Dennis C., Daniel. A. Sarr, Sean R. Mohren, and Robert. C. Klinger.
2010. Invasive species early detection monitoring protocol for Klamath Network parks. NPS/KLMN/NRTR—2010. National Park Service, Fort Collins, Colorado.

Odion, Dennis C., Daniel. A. Sarr, Sean R. Mohren, and Robert. C. Klinger.
2010. Invasive species early detection monitoring protocol for Klamath Network parks. Natural Resource Report NPS/KLMN/NRTR—2010. National Park Service, Fort Collins, Colorado.

Odion, Dennis C., Max A. Moritz, and Dominick A. DellaSala. 2009. Alternative community states maintained by fire in the Klamath Mountains, USA. *Journal of Ecology* 98: 96-105.

Hanson, Chad T., **Odion, Dennis C.**, DellaSala Dominick A., Baker, William L.
2009. Overestimation of fire risk in Northern Spotted Owl Recovery Plan. *Conservation Biology* 23: 1314-1319.

Odion, Dennis C. and Chad Hanson. 2008. Fire severity in the Sierra Nevada revisited: conclusions robust to further analysis. *ECOSYSTEMS*, 11: 12-15.

Sarr, Daniel A., **Dennis C. Odion**, Sean. Mohren, Elizabeth. Perry, Robert. Hoffman, Laura Bridy, and Andrew Merton. 2007. Klamath Network Vital Signs Monitoring Plan. NPS/KLMN/NRR--2007/016. National Park Service, Fort Collins, CO. 128 pages, plus appendices.

Odion, Dennis C. 2007. Book Review: Fire in California Ecosystems. *Madroño* 54: 354-357.

Odion, Dennis C. and Daniel A. Sarr. 2007. Managing disturbance regimes to maintain biodiversity in forested ecosystems of the Pacific Northwest. *Forest Ecology and Management* 246: 57-65.

Tyler, Claudia M., **Dennis C. Odion**, and Ragan M. Callaway. 2007. Dynamics of woody species in the California grassland. Chapter 10, in Stromberg, M., Corbin, J. and D'Antonio, C., editors. Ecology and Management of California grasslands. University of California Press, Berkeley, CA, pp 169-179.

- Hanson, Chad T., **Odion, Dennis C.** 2006. Fire Severity in mechanically thinned versus unthinned forests of the Sierra Nevada, California. In: Proceedings of the 3rd International Fire Ecology and Management Congress, November 13-17, 2006, San Diego, CA.
- Odion, Dennis C.** and Chad T. Hanson. 2006. Fire severity in the conifer forests in the Sierra Nevada, California. *ECOSYSTEMS* 9: 1177-1189.
- Moritz, Max, A. and **Dennis C. Odion.** 2006. Further examining the relationship between past fire and Sudden Oak Death occurrence. Proceedings of the 2005 conference on Sudden Oak Death, Monterey, Ca. USDA Forest Service [Gen. Tech. Rep. PSW-GTR-196, pp. 169-177.](#)
- Odion, Dennis C.** 2006. Book Review: Mimicking Nature's Fire: Restoring Fire-prone Forests of the West, By Stephen F. Arno and Carl E. Fiedler. *Kalmiopsis* 13: 39-40.
- Sarr, Daniel A., **Dennis C. Odion**, David E. Hibbs, Jennifer Weikel, Robert E. Gresswell, R. Bruce Bury, Nicole M. Czarnomski, Robert J. Pabst, Jeff Shatford and Andrew R. Moldenke. 2005. Riparian Zone Forest Management and the Protection of Biodiversity: A Problem Analysis. [Technical Bulletin No. 908.](#) National Center for Air and Stream Improvement (NCASI), Inc. Research Triangle Park, N.C. 107 pp., appendices.
- Moritz, Max A. and **Dennis C. Odion.** 2005. Examining the strength and possible causes of the relationship between fire history and Sudden Oak Death. *Oecologia* 144:106-114.
- Moritz, Max A. and **Dennis C. Odion.** 2004. Prescribed fire and natural disturbance. *Science* 306: 1680.
- Rhodes, Jon J. and **Dennis C. Odion.** 2004. Evaluation of the efficacy of forest manipulations still needed. *BioScience* 54: 980.
- Odion, Dennis C.**, James R. Strittholt, Hong Jiang, Evan J. Frost, Dominick A. DellaSala, and Max A. Moritz. 2004. Patterns of fire severity and forest conditions in the Western Klamath Mountains, California. *Conservation Biology* 18: 927-936.
- Odion, Dennis C.**, James R. Strittholt, Hong Jiang, Evan J. Frost, Dominick A. DellaSala, and Max A. Moritz. 2004. Fire and vegetation dynamics in the Western Klamath Mountains. Pages 71-80 in K. L. Mergenthaler, J. E. Williams, and E. S. Jules eds. Proceedings of the Second Conference on Klamath-Siskiyou Ecology. Siskiyou Field Institute, Cave Junction, Oregon.
- Odion, Dennis C.**, Janice Alexander, and Michael Swezy. 2004. Use of short rotation burning to combat non-natives and their seed banks in California North Coastal Prairie. Pages 46-57 in N. G. Sugihara, M. E. Morales, and T. J. Morales, editors. Proceedings of the symposium: fire management:

emerging policies and new paradigms. Miscellaneous Publication No. 2, Association for Fire Ecology, Berkeley, California.

Odion, Dennis C. and Claudia M. Tyler. 2003. Recent fire history of maritime chaparral dominated by *Arctostaphylos morroensis*. [Conservation Ecology 7](#)

Odion, Dennis C. and Claudia M. Tyler. 2002. Are long fire-free periods needed to maintain the rare, fire recruiting shrub *Arctostaphylos morroensis* (Ericaceae)? [Conservation Ecology 6: 4](#).

Odion, Dennis C., and K. A. Haubensak. 2002. Response of French broom to fire. Pages 296-307 in N. G. Sugihara, M. E. Morales, and T. J. Morales, editors. Proceedings of the symposium: fire in California ecosystems: integrating ecology, prevention and management. Miscellaneous Publication No. 2, Association for Fire Ecology, Berkeley, California.

Odion, Dennis C. 2001. Book Review: Savannas, Barrens, and Rock Outcrop Communities of North America. *Madroño* 48: 44-45.

Odion, Dennis C. 2001. Sudden oak death, a new threat to our forests. *Mountains and Rivers* 2: 18-19.

Odion, Dennis C. 2000. Seed banks of long-unburned stands of maritime chaparral: Composition, germination behavior and survival with fire. *Madroño* 47: 195-203.

Odion, Dennis C., Frank W. Davis. 2000. Fire, soil heating, and the formation of vegetation patterns in chamise chaparral. *Ecological Monographs* 70: 149-169.

Swezy, Michael and **Dennis C. Odion**. 1998. Fire on the mountain; a land-manager's manifesto for broom control. [Pages 76-81 in California Exotic Pest Plant Council's 1997 Symposium](#).

Borchert, Mark I. and **Dennis C. Odion**. 1995. Fire intensity and vegetation recovery in chaparral: a review. Pages 91-100 in Brushfires in California Wildlands: Ecology and resource management. International Association of Wildland Fire, Fairfield, WA.

Odion, Dennis C. 1995. Effects of variation in soil heating during fire on patterns of plant establishment and regrowth in maritime chaparral, Dissertation, University of California, Santa Barbara. 289p.

D'Antonio, Carla M., **Dennis C. Odion**, and Claudia Tyler. 1993. Invasion of maritime chaparral by the alien succulent *Carpobrotus edulis*: The roles of fire and herbivory. *Oecologia* 95: 14-21.

Odion, Dennis C., Ragan M. Callaway, Wayne R. Ferren Jr., and Frank W. Davis. 1992. Vegetation of Fish Slough, an Owens Valley wetland ecosystem. Pages 173-197 in C.K. Hall, V. Doyle-Jones and B. Widawski, eds. History of Water: Eastern Sierra Nevada, Owens Valley, White-Inyo Mountains. University of California Press.

- Haller, John R., Wayne R. Ferren, Jr., Ragan M. Callaway, **Dennis C. Odion**, and Frank W. Davis. 1992. A phytogeographic comparison of the vascular flora of the wetlands of Fish Slough with the floras of neighboring desert basins. Pages 111-122 in C.K. Hall, V. Doyle-Jones and B. Widawski, eds. *History of Water: Eastern Sierra Nevada, Owens Valley, White-Inyo Mountains*. University of California Press.
- Ferren, Wayne R. and **Dennis C. Odion**. 1992. Land and water-use history of Fish Slough: a chronology of selected events, observations, and publications from 1845 to the present. Pages 446-447 in C.K. Hall, V. Doyle-Jones and B. Widawski, eds. *History of Water: Eastern Sierra Nevada, Owens Valley, White-Inyo Mountains*. University of California Press.
- Davis, Frank W., Mark I. Borchert, and **Dennis C. Odion**. 1989. Establishment of microscale pattern in chaparral following fire. *Vegetatio* 84: 53-67.
- Davis, Frank W., Diana E. Hickson, and **Dennis C. Odion**. 1988. Vegetation composition in relation to age since burning and soil factors in maritime chaparral, California. *Madroño* 35: 169-195.
- Odion, Dennis C.**, Tom L. Dudley, and Carla M. D'Antonio. 1988. Cattle grazing in southeastern Sierran meadows: ecosystem change and prospects for recovery. Pages 277-292 in Clarence A. Hall and Vicki Doyle-Jones (eds.) *Plant Biology of Eastern California*. University of California, White Mountain Research Station publication.
- Odion, Dennis C.**, Mary C. Carroll, and Carol J. Bornstein. 1988. Revegetation in Santa Barbara County: enduring dilemmas and potential solutions. Pages 76-91 in *Proceedings of the Native Plant Revegetation Symposium*, San Diego, Ca., April 1987. California Native Plant Society.
- Odion, Dennis C.** 1988. Fire and the Chaparral of the Los Padres. *Los Padres Notes* 4: 8-15.
- Odion, Dennis C.**, and Shari Smith. 1988. *Guide to the Santa Barbara Botanic Garden*. Santa Barbara Botanic Garden, Santa Barbara, Ca. 46 pages, maps and illustrations.
- Nadkarni, Nalini M. and **Dennis C. Odion**. 1985. Effects of seeding exotic grass *Lolium multiflorum* on native seedling regeneration following fire in a chaparral community. Pages 115-121 in *Chaparral Ecosystem Research Conference*, Santa Barbara Ca., 1985. California Water Resources Center Report no. 62.
- Odion, Dennis C.** 1985. Noteworthy Collections, *Dicentra pauciflora*. *Madroño* 32: 57.

Publications in progress

- Odion, Dennis C.** and Daniel A. Sarr. Klamath Network case study: the protocol development. Chapter 11A, In: *Invasive Handbook: Early Detection of Invasive Species*. National Park Service Publication.
<http://www.pwrc.usgs.gov/brd/invasiveHandbook.cfm>. In revision.
- Odion, Dennis C.**, Daniel A. Sarr and Sean Mohren and Sean Smith. .
Vegetation composition, structure, and function monitoring protocol for the Klamath Network parks. Natural Resource Report NPS/KLMN/NRTR—
2010/XXX NPS. National Park Service, Fort Collins, Colorado. In Revision.
- Tyler, Claudia M. and **Dennis C. Odion**. Germination cues and their implications for the conservation of the endangered, fire-dependent shrub, *Arctostaphylos morroensis*. In revision.
- Moritz, Max A., Lori J. Miles, Erin M. Brown, Daniel Hüberli, Andrew A. Schaffner, Matteo Garbelotto, and **Dennis C. Odion**. Does smoke exposure affect the infection of *Umbellularia californica* (bay laurel) leaves by *Phytophthora ramorum*? In revision.
- Hanson, Chad T., and **Dennis C. Odion**. Historic occurrence of high severity fire in the central and northern Sierra Nevada. In review.
- Tyler, Claudia M. Daniel, Meade and **Dennis C. Odion**. Factors affecting reproduction and seed accumulation in a rare obligate-seeding shrub: pollinator-limitation and fruit predation. In prep.
- Smith, Sean B., **Dennis C. Odion**, and Daniel A. Sarr. Blister rust, mountain pine beetle, and mortality of whitebark pine at Crater Lake National Park, Oregon, USA. In prep.
- McKinney, Shawn, Thomas Rodhouse, **Odion, Dennis C.**, and Daniel A. Sarr. High elevation, five-needle pine monitoring protocol for the Pacific West Region National parks. Natural Resource Report NPS/KLMN/NRTR—
2010/XXX NPS. National Park Service, Fort Collins, Colorado. In Prep.

Technical Reports

- Carroll, Carlos, **Dennis C. Odion**, Christopher A. Frissell, Dominick A. DellaSala, Barry R. Noon, and Reed Noss. 2009. Conservation Implications of Coarse-Scale versus Fine-Scale Management of Forest Ecosystems: Are Reserves Still Relevant? For the Wilburforce Foundation. 40 pages.
- Odion, Dennis C.** 2008. Expert Declaration of Dr. Dennis C. Odion II in Support of Plaintiffs. Federal District Court Case C04-844P-JCC, *Northwest Ecosystem Alliance (prevailing) vs. Mark E. Rey et al.* regarding vegetation management under the Northwest Forest Plan, 24 pages.
- Swanson Hydrology & Geomorphology et al. 2005-2007. Meeks Creek and High Meadow resource assessments and restoration plans Reports to Lake Tahoe Basin Management Unit.

- Odion, Dennis C.** 2007. Expert Declaration of Dr. Dennis C. Odion in Support of Plaintiffs on Timber Harvest Effects on Fire. Federal District Court Case Civ. 07-06283-HO *Sierra Club (prevailing) vs. Mark E. Rey et* regarding fire management in the eastern Cascades, 15 pages.
- DellaSala, Dominick A., Greg Nagle, Rich Fairbanks, **Dennis C. Odion**, Jack E. Williams, James R. Karr, Chris Frissell, and Timothy Ingalsbee. 2006. [The facts and myths of post-fire management: a case study of the Biscuit fire, southwest Oregon](#). World Wildlife Fund, Klamath-Siskiyou Program, 116 Lithia Way, Ashland, Oregon. 31 pages.
- Frost, Evan J. and **Dennis C. Odion**. 2006. Effects of Livestock Grazing on Ecosystem Dynamics in Grassland and Woodland Plant Communities of the California Floristic Province. Unpublished Report, World Wildlife Fund, Klamath-Siskiyou Program, 116 Lithia Way, Ashland, Oregon. 114 p.
- Odion, Dennis C.** 2005. Expert Declaration of Dr. Dennis C. Odion in Support of Plaintiffs. Federal District Court Case Civ S-04-2114GEB/DAD. *Sierra Club vs. Bosworth et al.* regarding categorical exclusion of fire management projects on federal lands, 25 pages.
- Odion, Dennis C.**, Sarr, Daniel A., et al. 2005. Vital Signs Monitoring Plan for the Klamath Network: [Phase II Report](#). Klamath Network-National Park Service, Ashland, OR. 124 p. 14 appendices.
- Odion, Dennis C.** 2005. Expert Declaration of Dr. Dennis C. Odion in Support of Plaintiffs. Federal District Court Case C- 05-00898-CRE *Sierra Club (prevailing) vs. Bosworth et al.* regarding vegetation management in the Giant Sequoia National Monument, 12 pages.
- Odion, Dennis C.**, Evan J. Frost, and Robert Sweeney. 2004. [Summary of current information on fire regimes in the Klamath region](#). Klamath Network of the National Park Service.
- Odion, Dennis C.** 2004. Burn Severity Patterns in the 2002 McNally Fire, Sequoia National Forest. Natural Resources Defense Council. 21 p.
- Odion, Dennis C.** 2004. Expert Declaration of Dr. Dennis C. Odion : effects of timber harvest on fire. *Federal District Court Case No. CV-02-3062-HO Klamath Siskiyou Wildlands Center (prevailing) v. BLM et al. regarding forest management and fire.*
- Odion, Dennis, C.** 2003. Potential Vegetation of Terraces Constructed for Flood Control along the Napa River at St. Helena. For the City of St. Helena, California. 7 p.
- Whiskeytown National Recreation Area. Fire management plan: Environmental Impact Statement. National Park Service.
- Swanson Hydrology & Geomorphology et al. 2002. Watershed Resources Management Plan: Planning Analysis and Recommendations Report. Prepared for City of Santa Cruz Water Department and The Watershed Resources Technical Advisory Task Force.

- Odion, Dennis C.** 2002. Chaparral and other shrub dominated vegetation. Pages 38-41 in **D.C. Odion** and E.J. Frost, eds. [Protecting Objects of Scientific Interest in the Cascade-Siskiyou National Monument: Status, Threats and Management Recommendations](#). World Wildlife Fund, Klamath-Siskiyou Regional Program, Ashland, OR.
- Odion, Dennis C.** 2003. Expert Declaration of Dennis C. Odion in Support of Plaintiffs. Federal Court Case CV S-03-1338 MCE DAD *Earth Island Institute, et al.(prevailing) v. U.S. Forest Service* regarding management of federal forests after fire.
- Frost, Evan J. and **Dennis C. Odion**. 2002. Fire as an object of scientific interest and implications for forest management, Pages 76-91 in **D.C. Odion** and E.J. Frost, eds. [Protecting Objects of Scientific Interest in the Cascade-Siskiyou National Monument: Status, Threats and Management Recommendations](#). World Wildlife Fund, Klamath-Siskiyou Regional Program, Ashland, OR.
- Odion, Dennis C.** 2002. Petition to List the Port-Orford-cedar (*Chamaecyparis lawsoniana*) Under the Endangered Species Act. World Wildlife Fund, Klamath-Siskiyou Regional Program, Ashland, OR. 11 pages.
- Tyler, Claudia M., **Dennis C. Odion**, Daniel Meade, and Max A. Moritz. 2000. Factors affecting regeneration of Morro Manzanita (*Arctostaphylos morroensis*): reproductive biology and response to prescribed burning. California Department of Fish and Game. 38 pages.
- Tyler, Claudia M., **Dennis C. Odion**, and Daniel Meade. 1998. Reproductive biology and the conservation of Morro Manzanita (*Arctostaphylos morroensis*). California Department of Fish and Game. 30 pages.
- Davis, Frank W., David M. Stoms, Allan D. Hollander, Kathryn A. Thomas, Peter A. Stine, **Dennis C. Odion**, Mark I. Borchert, Jim H. Thorne, M. Violet Gray, Richard E. Walker, K. Warner, and J. Graae. 1998. The California Gap Analysis Project—Final Report. University of California, Santa Barbara. <http://www.biogeog.ucsb.edu/pubs/Technical Reports/Technical Reports.htm>.
- Odion, Dennis C.**, David Stoms, and Frank W. Davis. 1997. [Gap analysis of the land-cover of the Modoc Plateau region](#). Pages 204-212 in California Gap Analysis: a geographic analysis of biodiversity. University of California, Santa Barbara.
- Tyler, Claudia M. and **Dennis C. Odion**. 1996. Ecological studies of Morro Manzanita (*Arctostaphylos morroensis*). California Department of Fish and Game. 43p.
- Odion, Dennis C.**, Storrer, John, and Vince Semonsen. 1993. Biological resources of the Burton Mesa Land Acquisition Parcel: inventory and analysis of restoration and management Needs. Santa Barbara County, Resource Management Department. 44 pages, maps, appendices.
- Odion, Dennis C.**, Diana E. Hickson, and Carla M. D'Antonio. 1992. Central Coast Maritime Chaparral on Vandenberg Air Force Base: an inventory and

analysis of management needs for a threatened vegetation association. The Nature Conservancy. 42 pages, 70 maps.

Odion, Dennis C. 1992. Impacts from the proposed Lompoc Community Fuelbreak. Santa Barbara County, California Fire Department. 13 pages, 2 maps.

Odion, Dennis C. 1989. Native grassland resources in Santa Barbara County: an evaluation of preserve sites and mitigation policy. Santa Barbara County, Resource Management Department. 24 p. 8 maps.

The Oak Collaborative. 1990. Burton Mesa Natural Preserve: master plan and environmental assessment. Santa Barbara County Park Department.

Philbrick, Ralph. and **Dennis C. Odion**. 1988. An analysis of potential preserve locations for Burton Mesa Chaparral. Santa Barbara County Resource Management Department. 24 p. 2 maps.

Odion, Dennis C. 1988. The biological resources of the Goleta Sanitary District wetland area: an evaluation of current and former values and enhancement/restoration options. Unpublished report for the Goleta Sanitary District. 37 p. 2 maps.

Odion, Dennis C. and Ralph N. Philbrick. 1987. Botanical resource assessment, Unocal Oil Company Lands, Burton Mesa, California. 36 pages, 4 maps.

INVITED PRESENTATIONS

Odion, Dennis C. Fire risk and Northern Spotted Owls. Public Interest Environment Law Conference. University of Oregon School of Law. Eugene, Oregon, February 2010.

Odion, Dennis C. Pyrodiversity begets biodiversity. Public Interest Environment Law Conference. University of Oregon School of Law. Eugene, Oregon, February 2010.

William L. Baker, Chad T. Hanson, **Dennis C. Odion**, Dominick A. DellaSala. Implications of Lower Recent Fire Risk for Stand-Level Restoration. Redmond, Oregon, October 2009. Joint Fire Sciences, [Dry Forest Workshop](#), Redmond, Oregon, October, 2009.

Chad Hanson, **Dennis Odion**, Dominick A. DellaSala, William Baker. Overestimation of Fire Risk in the Northern Spotted Owl Recovery Plan. Society for Conservation Biology, Annual Meeting, Flagstaff, Arizona, September, 2009.

Odion, Dennis C. Climate Change and Fire in the Klamath Region. Wilburforce Foundation, Seattle, Washington, May, 2009.

Odion, Dennis C. Fire and alternative stable states in the Klamath region. Invited Presentation, Humboldt State University, Arcata, California, April, 2009.

Sarr, Daniel A. and **Dennis C. Odion**. Into the mist: Klamath conservation in the face of uncertainty. Third Siskiyou Ecology Conference, Selma, Oregon, May, 2009.

- Odion, Dennis C.**, Daniel A. Sarr, Ayzik Solomesheh, Robert C. Klinger, and Heather Lundgren, Southern Oregon University. A Long-term Monitoring Protocol for Invasive Species in the Klamath Network Parks. Third Siskiyou Ecology Conference, Selma, Oregon, May, 2009.
- Odion, Dennis C.**, Daniel A. Sarr, and A. Solomesheh. Long Term Monitoring Protocol for Invasive Species in the Klamath Network Parks. George Wright Society Conference, Portland, Oregon, March, 2009
- Odion, Dennis C.** Fire, vegetation patterns and alternative stable states in the Klamath region. Invited Presentation, College of Arts and Sciences, Southern Oregon University, October 2008.
- Odion, Dennis C.** Fire and vegetation dynamics in the Klamath region. Klamath Fire Ecology Symposium, Mid Klamath Watershed Council, Orleans, California, May, 2008.
- Odion, Dennis C.** The ecological importance of heterogeneity in fire. Public Interest Environment Law Conference. University of Oregon School of Law. Eugene, Oregon, February 2010.
- Odion, Dennis C.**, Max A. Moritz, and Dominick DellaSala. Fire and the maintenance of alternative stable states in the Klamath region. Third International Fire Ecology and Management Congress, San Diego, California, November, 2006.
- Odion, Dennis C.** and Chad T. Hanson. Spatial and temporal patterns of fire severity in Conifer forests of the Sierra Nevada, California. Third International Fire Ecology and Management Congress, San Diego, California, November, 2006.
- Hanson, Chad.T., and **Dennis C. Odion**. Fire Severity in mechanically thinned versus unthinned forests of the Sierra Nevada, California. Third International Fire Ecology and Management Congress, San Diego, California, November, 2006.
- Hanson, Chad.T., **Dennis C. Odion** and Malcolm P. North. Historic occurrence of high severity fire in the northern Sierra Nevada, California. Third International Fire Ecology and Management Congress, San Diego, California, November, 2006.
- Odion, Dennis C.** and Daniel A. Sarr. Managing Disturbance Regimes to Maintain Biological Diversity in Forested Ecosystems of the Pacific Northwest. Managing Biodiversity in Pacific Northwest Forests: Strategies and Opportunities, Portland, Oregon, June, 2006.
- Odion, Dennis C.** Expert testimony in support of plaintiffs. United States 9th Circuit Court of Appeals, Case CV-00397-CRS, 2005-2006, *Sierra Club (prevailing) v. Eubanks*, regarding federal forest management and fire in American fisher habitat. 2006.
- Moritz, Max, A. and **Dennis C. Odion**. Further examining the relationship between past fire and Sudden Oak Death occurrence. 2005 conference on Sudden Oak Death, Monterey, California, January 2005.
- Odion, Dennis C.** and Max A. Moritz. Variable frequency and severity fire regimes and alternative stable states in the Klamath Mountains. Ecological Society of America Meeting, Portland, Oregon, August, 2004.

- Odion, Dennis C.**, James R. Strittholt, Hong Jiang, Evan J. Frost, Dominick A. DellaSala, and Max A. Moritz. Fire and vegetation dynamics in the Western Klamath Mountains. Second Siskiyou Ecology Conference, Selma, Oregon, May, 2003.
- Odion, Dennis C.** and Claudia Tyler. Fire and maritime chaparral in Santa Barbara and San Luis Obispo Counties. The Ecology and Conservation of California's Maritime Chaparral. Moss Landing, California, January 2003.
- Odion, Dennis C.** Plant Adaptations to fire. Invited Banquet Speaker. Siskiyou Field Institute. Selma, Oregon, May, 2002.
- Odion, Dennis C.** Plant adaptations to fire. Scienceworks Museum. Ashland, Oregon, 2002.
- Odion, Dennis C.** The California Chaparral. Oregon Native Plant Society, Ashland, Oregon, 2001.
- Odion, Dennis C.**, Janice Alexander, and Michael Swezy. Use of short rotation burning to combat non-natives and their seed banks in California North Coastal Prairie. Fire management: emerging policies and new paradigms. San Diego, California, November, 1999.
- Tyler, Claudia M., and **Dennis C. Odion**. The role of fire in the maintenance of a rare species of manzanita. Fire management: emerging policies and new paradigms. San Diego, California, November, 1999.
- Odion, Dennis C.** The ecology of Morro Manzanita (*Arctostaphylos morroensis*). California Native Plant Society, San Luis Obispo California, 1998.
- Odion, Dennis C.**, and K. A. Haubensak. Response of French broom to fire. Fire in California ecosystems: integrating ecology, prevention and management. San Diego, California, November 1997.
- Swezy, Michael and **Dennis C. Odion**. Fire on the mountain; a land-manager's manifesto for broom control. California Exotic Pest Plant Council, Annual Symposium, Sacramento California, October, 1997.
- Odion, Dennis C.** Landscaping consideration for fire safety in the urban interface. Public lecture, Marin County California, 1996.
- Odion, Dennis C.** Fire and vegetation management of the Mt. Talmapais Watershed. California Native Plant Society, 1995.
- Odion, Dennis, C.** The ecology and restoration of maritime chaparral. Invited seminar, University of California, Santa Cruz, February, 1995.
- Odion, Dennis C.** The establishment of vegetation patterns after fire in chaparral. University of California, Department of Geography, May, 1995.
- Borchert, Mark I. and **Dennis C. Odion**. Fire intensity and vegetation recovery in chaparral: a review. Brushfires in California Wildlands: Ecology and resource management. Irvine, California, May, 1994.
- Odion, Dennis C.**, Ragan M. Callaway, Wayne R. Ferren Jr., and Frank W. Davis. Vegetation of Fish Slough, an Owens Valley wetland ecosystem.

History of Water: Eastern Sierra Nevada, Owens Valley, White-Inyo Mountains, Bishop, California, September, 1991.

Odion, Dennis C. Chaparral and fire. Sifting through the ashes: lessons learned from the Painted Cave Fire. Santa Barbara Natural History Museum, 1990.

Odion, Dennis C. and Frank W. Davis. Fire, soil heating, and vegetation patterns in chaparral. Ecological Society of America, Annual Meeting, Snowbird, Utah, August, 1989.

Odion, Dennis C., Mark I. Borchert, and Frank W. Davis. Origin of microscale pattern in maritime chaparral. Ecological Society of America, Annual Meeting, Davis, California, August, 1988.

Odion, Dennis C., Diana E. Hickson, and Frank W. Davis. Spatial and temporal vegetation patterns following fire in maritime chaparral, California. Ecological Society of America, Annual Meeting, Columbus, Ohio, August 1987.

Odion, Dennis C., Tom L. Dudley, and Carla M. D'Antonio. Cattle grazing in southeastern Sierran meadows: ecosystem change and prospects for recovery. The Mary DeDecker Symposium: Plant Biology of Eastern California. University of California, White Mountain Research Station, Bishop, California, May, 1987.

Odion, Dennis C., Mary C. Carroll, and Carol J. Bornstein. Revegetation in Santa Barbara County: enduring dilemmas and potential solutions. California Native Plant Society, Native Plant Revegetation Symposium, San Diego, California, April, 1987.

Odion, Dennis C. Chaparral and fire. Invited lecture. Santa Barbara Botanic Garden, 1986.

Hickson, Diana E., **Dennis C. Odion**, and Frank W. Davis. Endemic-rich Burton Mesa Chaparral: a quantitative analysis. California Native Plant Society, Sacramento, California, November, 1986.

Odion, Dennis C., Diana E. Hickson, and Frank W. Davis. Vegetation development following fire in Burton Mesa Chaparral. Chaparral Paradigms Re-examined. Los Angeles County Museum of Natural History, 1986.

Odion, Dennis C. and Tom L. Dudley. Effects of cattle grazing on the establishment of pioneer species on streambanks in Sierra Nevada Meadows. Ecological Society of America Annual Meeting, Syracuse, New York, August, 1986.

Nadkarni, Nalini M. and **Dennis C. Odion**. Effects of seeding exotic grass *Lolium multiflorum* on native seedling regeneration following fire in a chaparral community. Chaparral Ecosystem Research Conference, Santa Barbara California, 1985.

SCIENTIFIC SERVICE

Federal Testimony: Expert Witness in cases on effects of fire and fire management on public lands.

Manuscript Reviews

*Conservation Biology**
*Ecological Applications**
International Journal of Wildland Fire
Journal of Ecology
*National Park Service**
Proc. of the Nat. Acad. of Sciences
Plant Ecology

Ecology
Fire Ecology
Journal of Vegetation Science[‡]
*Madroño**
Northwest Science
*Oecologia**
University of California Press.

*Multiple reviews

‡Award winning paper

Service Positions

- **Science Advisory Board.** The National Center for Conservation Science and Policy (current)
- **Northern Spotted Owl, Klamath Working Group:** U.S. Fish and Wildlife Service Science Team addressing fire management policy for the Spotted Owl Recovery Plan (current).
- **Scientific Review Committee:** Northern Spotted Owl. U.S. Fish and Wildlife Service (current)
- **Conservation Chair:** Siskiyou Chapter, Native Plant Society of Oregon (current).
- **The Wildlife Society:** Science team for peer review of the 2008 Northern Spotted Owl Recovery Plan. (2008).
- **Environment Now:** [Achievement awards](#) selection panelist, 2008, 2009.
- **Instructor:**
 - [The Ecology and Conservation of California's Maritime Chaparral](#) (2003)
 - Fire ecology of the Klamath Region. Siskiyou Field Institute (2002, 2003, 2004).
 - Guest lecturer, seminar instructor, Department of Biology, Southern Oregon University.

RESEARCH GRANTS AND FUNDING

| | |
|--------------|---|
| 2008-present | National Park Service, Vegetation Mapping Program |
| 2004-present | National Park Service, Inventory and Monitoring Program |
| 2003-2005 | National Science Foundation, Co-PI |
| 1996-2000 | California Department of Fish and Game |
| 1985-1995 | Santa Barbara County Fire and Resource Management |
| 1990-1992 | California Department of Fish and Game |
| 1992 | The Nature Conservancy |
| 1987-1990 | National Science Foundation, Co-PI |
| 1984-1985 | US Forest Service |

PROFESSIONAL ORGANIZATIONS

California Botanical Society (1983)
California Native Plant Society (1983)
Ecological Society of America (1983)
Native Plant Society of Oregon (Conservation Chair, Siskiyou Chapter)(2000)
Society for Conservation Biology (1986)
The George Wright Society (National Park Service)(2006)
Union of Concerned Scientists (2007)

REFERENCES

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